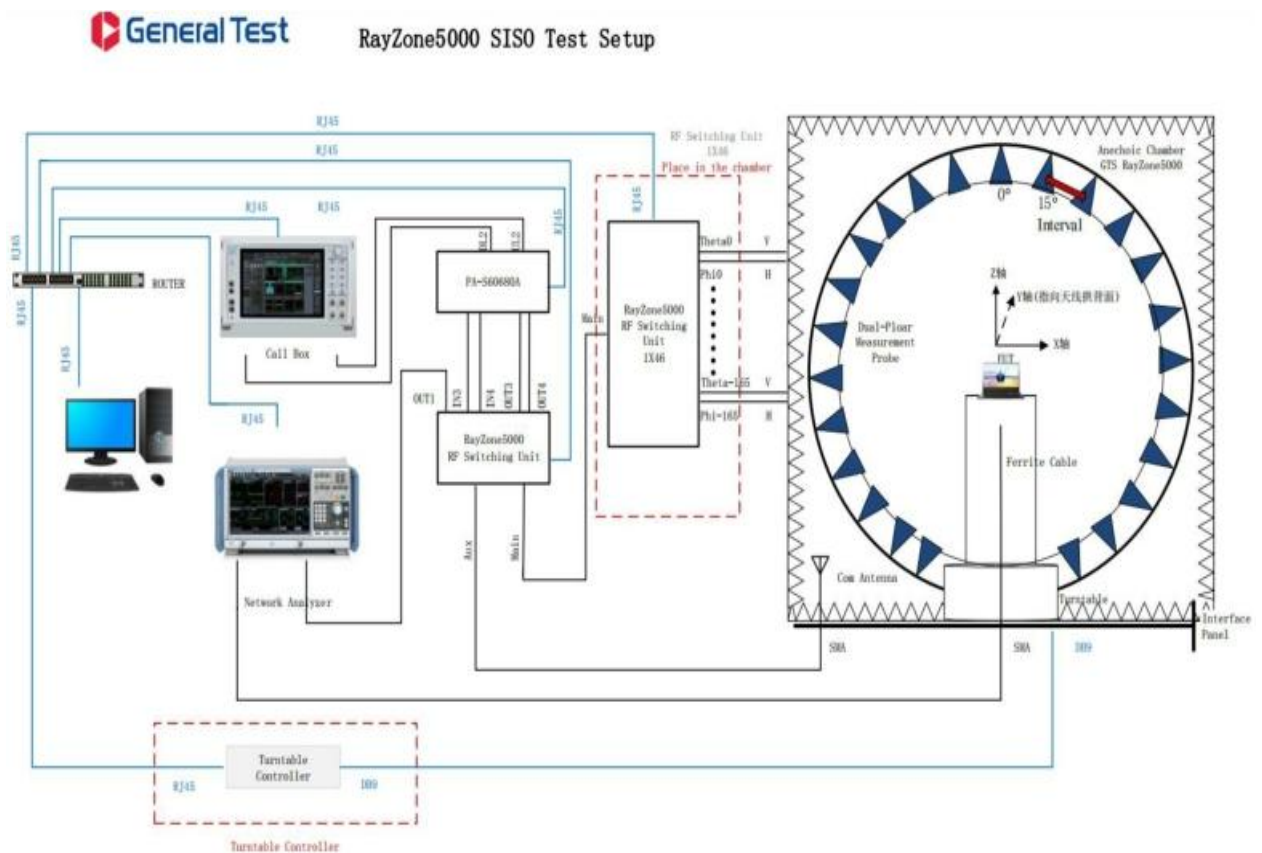


天线报告 Antenna report

Manufacturer : ShenZhen ShanWan Technology Co., Ltd
Add: 5 / F, building 33, chentian Industrial Zone, chentian community, Xixiang street,
Bao'an District, Shenzhen, Guangdong China
Model : Q42

1.测试原理 Test principle



2. 测试设备Test equipment

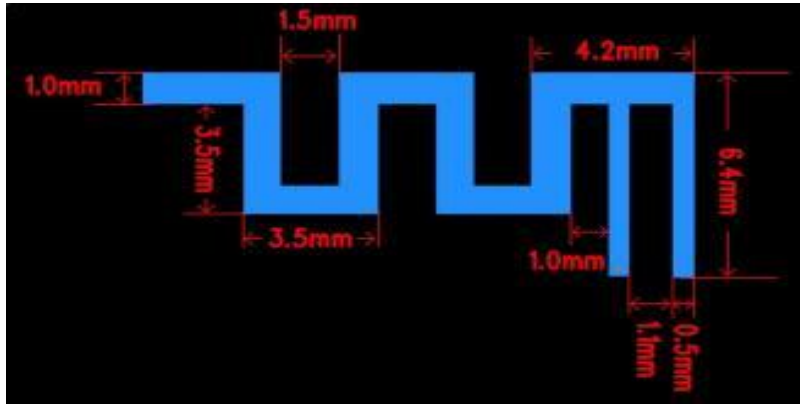
| 名称name | 型号model | 设备编号NO. | 厂商manufacturer | 校准日期Calibration date | 下次校准日期Date of next calibration |
|---------------------------|--------------|----------------|----------------|----------------------|--------------------------------|
| OTA 测试系统 Test system | RayZone-5000 | RFI-LAB-RF-D00 | GTS | 2021.3.22 | 2023.3.21 |
| 网络分析仪 Network analyzer | E5071C | RFI-LAB-RF-C02 | KEYSIGHT | 2022.5.13 | 2023.5.12 |
| 网络分析仪 Network analyzer | E5071C | RFI-LAB-RF-D01 | KEYSIGHT | 2022.5.13 | 2023.5.12 |

3. 测试环境Test environment

| | |
|------------------------------|-----------|
| 环境温度temperature | 23.6°C |
| 相对湿度humidity | 58%RH |
| 大气压强 Atmospheric pressure | 100.14kPa |

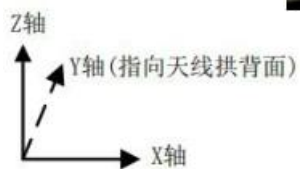
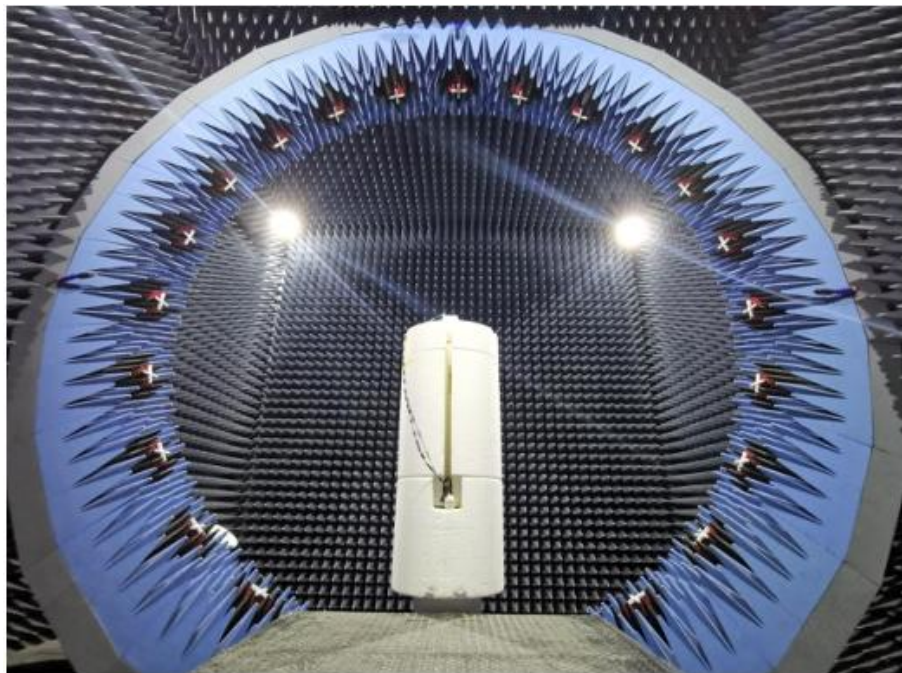
ShanWan

4. 样品实物Size



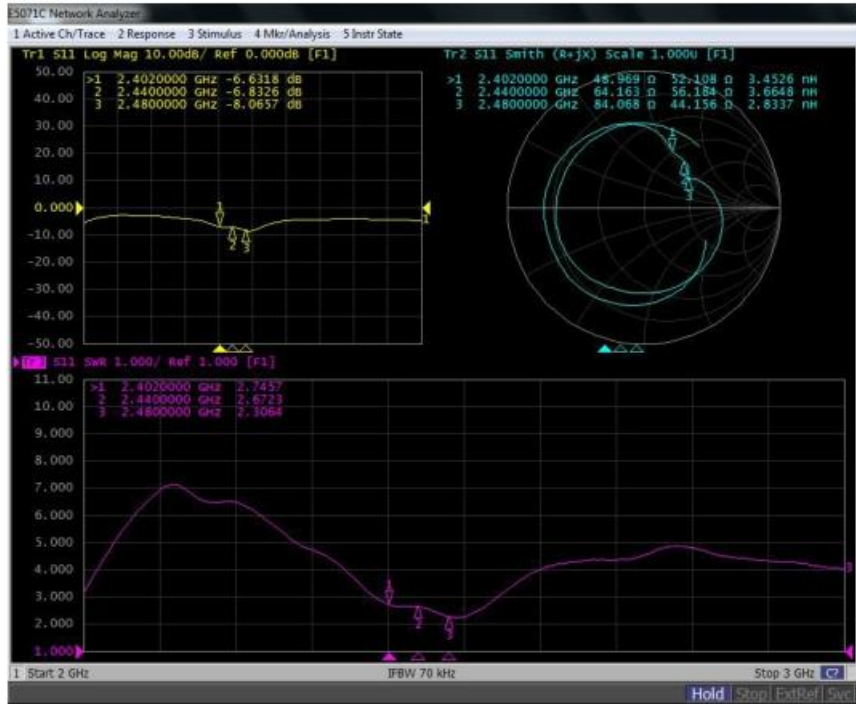
5. 样品实测摆放图 Test Setup

主视图



7. 测试数据 Test Data

7.1 网络分析仪测试 Data



7.2 VSWR

| | | | |
|---------------|--------|--------|--------|
| frequency/MHz | 2402 | 2440 | 2480 |
| VSWR | 1.3910 | 1.4662 | 2.0735 |

7.3 Gain and efficiency

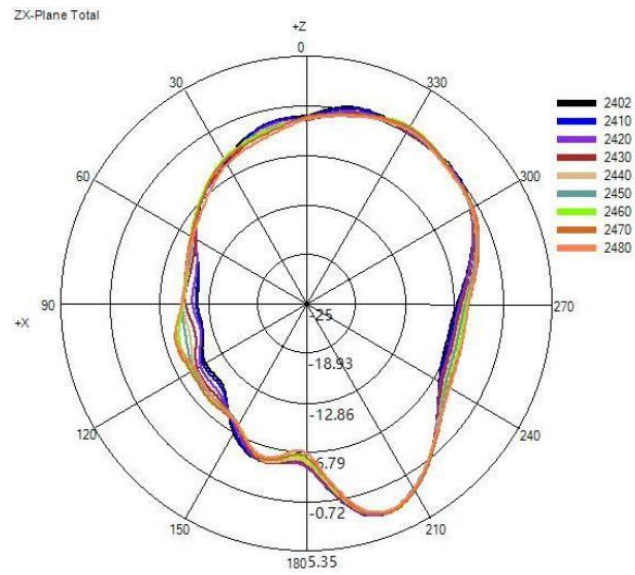
| | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Freq/MHz | 2402 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 |
| Gain/dBi | 2.85 | 2.88 | 2.79 | 2.77 | 2.69 | 2.52 | 2.46 | 2.41 | 2.03 |
| Effi/% | 44.98 | 45.34 | 44.93 | 45.74 | 46.00 | 45.14 | 45.56 | 44.49 | 40.81 |

7.4 Roundness of the directional graph

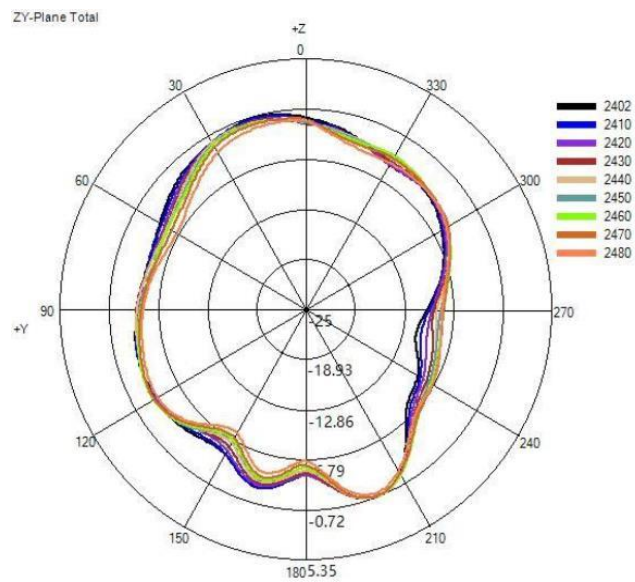
| | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| frequency/MHz | 2402 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 |
| H Theta=90/dB | 20.55 | 20.57 | 20.15 | 19.12 | 18.93 | 20.11 | 20.49 | 19.26 | 16.51 |

7.5 Directional diagram

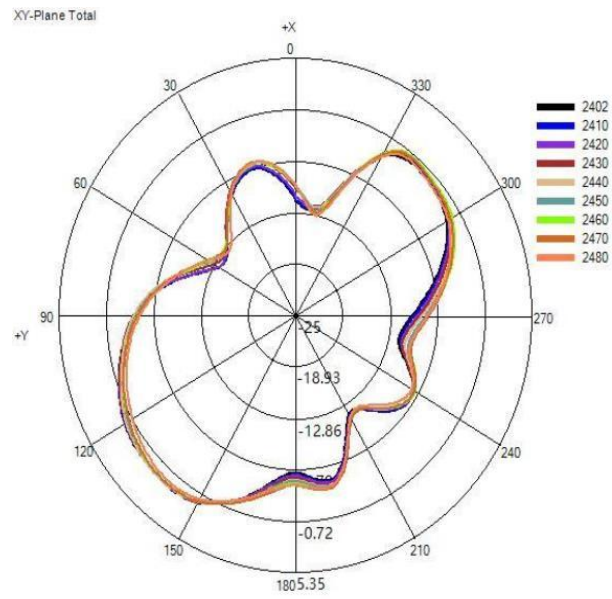
(1) X-Z 面(单位: dBi):



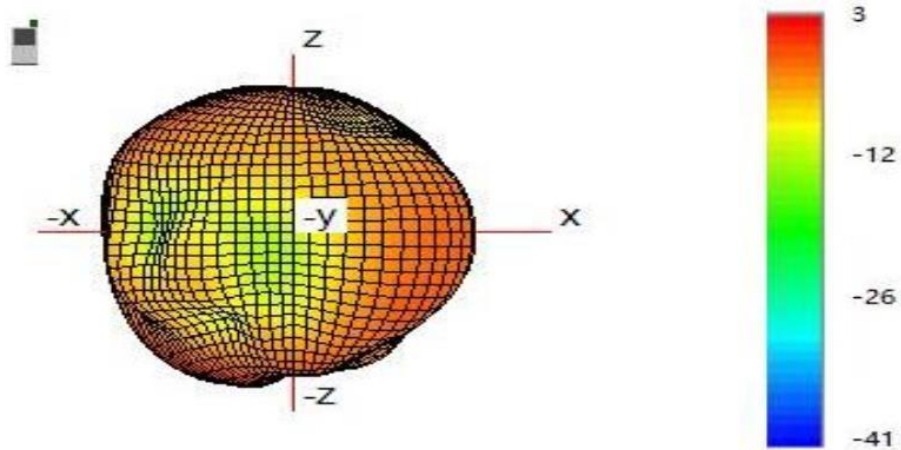
(2) Y-Z (dBi):



(3) X-Y (dBi):



(4) 2410MHz 3D (dBi):



-----end-----